

I certify that I received and filed
instrument on this 23
day of Dec, 19 63, at 4:31
o'clock P.M.

F. L. Moore
COUNTY RECORDER

By _____ DEPUTY

File No. 2134

T2 N. R. 19 W.

DUPLICATE

County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

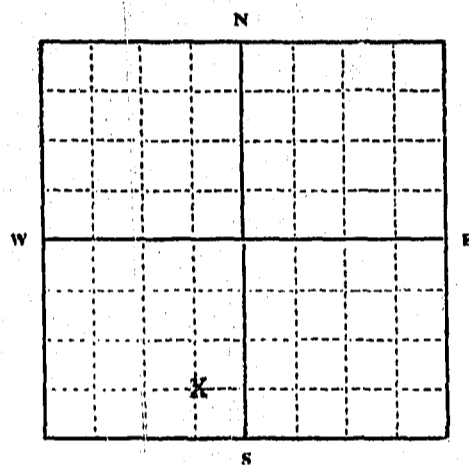
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Prior to 1910Owner Phyllis Ford Twogood Address Sula, MontanaContractor (if any) none (not applicable)Address of Contractor Not applicableDate Started Not applic. Date Completed not applic.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural spring flowing at the surface; spring flows continuously year around.

SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 15 T. 2N. R. 19W.

Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use. 50 gpm (estimated) continuous flow. Spring is used for irrigation and stock water.

Signature of Owner Phyllis Ford TwogoodDate December 23, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

15628

I certify that I received and filed this
instrument on this.....23.....
day of.....Dec.....1963, at 4:29
o'clock.....P.....M.

F. G. Moore
COUNTY RECORDER

By.....
DEPUTY

File No. 2135

T. 2 N. R. 19 W.

DUPLICATE

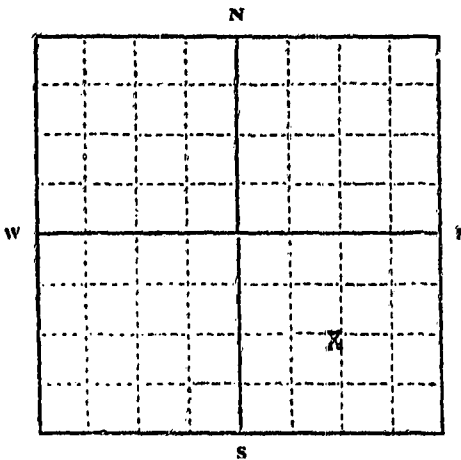
County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

1. Phyllis Ford Twogood, of Sula
(Name of Appropriator) (Address) (Town)
County of Ravalli State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 16 T. 2N. R. 19W.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Domestic, stock water, and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Prior to 1910. Use has been continuous from year to year.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Approximately 100 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Spring flows into Doran Creek and contributes to irrigation of creek bottom for a mile and a half south. Owner is Phyllis Ford Twogood.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal All of spring flows naturally at the surface; domestic pump pumps from concrete box by means of pipe.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Concrete box and pump were installed in 1950 or 1951; prior withdrawal was by means of old spring box and flume to hydraulic ram.
8. The depth of water table at surface
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater There is no other well or other works for withdrawal.
10. The estimated amount of groundwater withdrawn each year 100gpm flowing continuously year around
11. The log of formations encountered in the drilling of each well if available None
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any court record None

Signature of Owner Phyllis Ford Twogood

Date December 23, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

15629

I certify that I received and filed this
instrument on this 23
day of Dec., 1963, at 4:30
o'clock P.M.

F. S. Moore
COUNTY RECORDER

By _____
DEPUTY

RECORDED
INDEXED

File No. 7/33

T2 N. R19 W.

DUPLICATE

County San Juan

DEC 26 1963

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

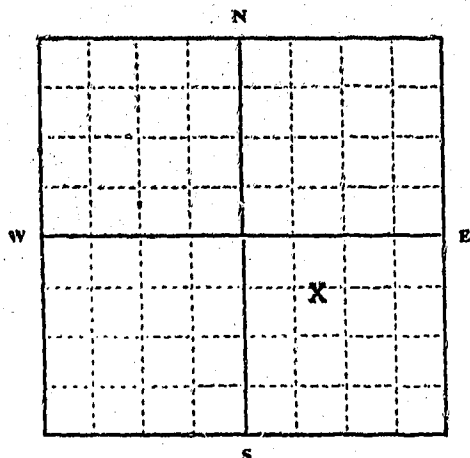
STATE ENGINEER

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Prior to 1910Owner Phyllis Ford Twogood Address Sula, MontanaContractor (if any) None (Not applicable)Address of Contractor Not applicableDate Started Not Applicable Date Completed not applicable

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural spring flowing at the surface; spring flows continuously year around.

NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16 T2N. R. 19W.

Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. 100gpm (estimated) continuous flow. Spring is used for irrigation and stock water.

Signature of Owner Phyllis Ford TwogoodDate December 23, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12617

File No. 2133

T.2. N. R.19. W.

DUPLICATE

County Same

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963

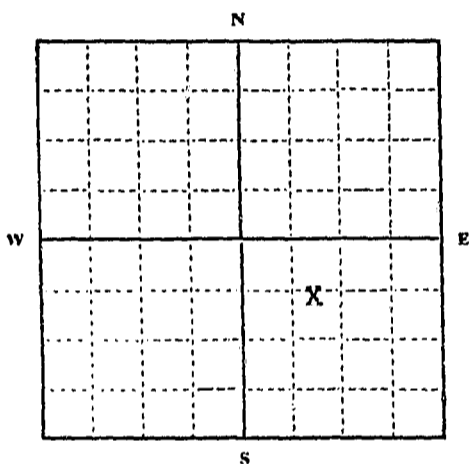
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Prior to 1910Owner Phyllis Ford Twogood Address Sula, MontanaContractor (if any) None (Not applicable)Address of Contractor Not applicableDate Started Not Applicable Date Completed not applicable

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural spring flowing at the surface; spring flows continuously year around.



NW 1/4 SE 1/4 Sec. 16 T2N. R. 19W.

Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use 100gpm

(estimated) continuous flow. Spring is used
for irrigation and stock water.

Signature of Owner Phyllis Ford TwogoodDate December 23, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

I certify that I received and filed this
instrument on this 23
day of Dec, 1963 at 4:28
o'clock P.M.

F. Y. Mason
COUNTY RECORDER

By _____
Deputy

File No. 2132T. 2 N. R. 19 W.

DUPLICATE

County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 26 1963

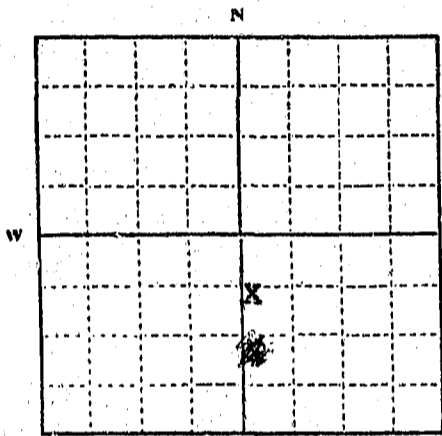
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Prior to 1910Owner Phyllis Ford Twogood Address Sula, MontanaContractor (if any) none (not applicable)Address of Contractor not applicableDate Started not applic. Date Completed not applic.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural spring flowing at the surface; spring flows continuously year around.



NW 1/4 Sec. 21 T. 2N. R. 19W.

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use 200 gpm(estimated) continuous flow. Spring known

as Clough Springs. Spring is used for irrigation and stock water.

Signature of Owner Phyllis Ford TwogoodDate December 23, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12616

I certify that I received and filed this
instrument on this 23
day of Dec, 1963 at 4:27
o'clock P.M.

F. A. Moore
COUNTY RECORDER

By _____
DEPUTY

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

File No.

T. 2W R. 19W

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater When homesteaded.

Owner Paul Wetzsteon Address Sula

Contractor (if any) Not applicable

Address of Contractor N. A.

Date Started N. A. Date Completed N. A.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Series of small springs

forming an intermittent stream.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

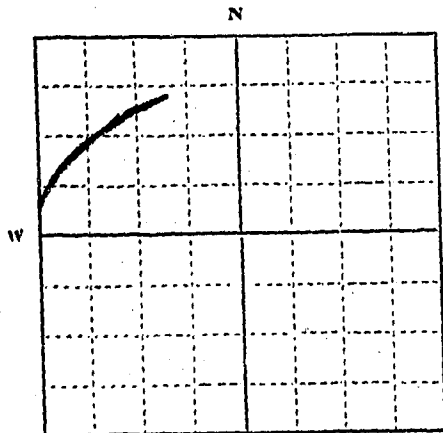
estimate approximate lengths of periods of use. Used for

livestock watering for approximately eight

months per year.

Signature of Owner Paul Wetzsteon

Date Dec. 30, 1963



NW 1/4 Sec. 26 T2N R19W

Indicate point of appropriation and place of use, if possible.

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

27414

#2604

I certify that I received and filed this
instrument on this 30th
day of Dec. 63 2:52
o'clock P.
F. G. Moore
COUNTY RECORDER
By Shirley Keith
DEPUTY

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

File No.

DUPLICATE

T. 2W R. 19W
County DECEIVED

JAN 8 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater When homesteaded

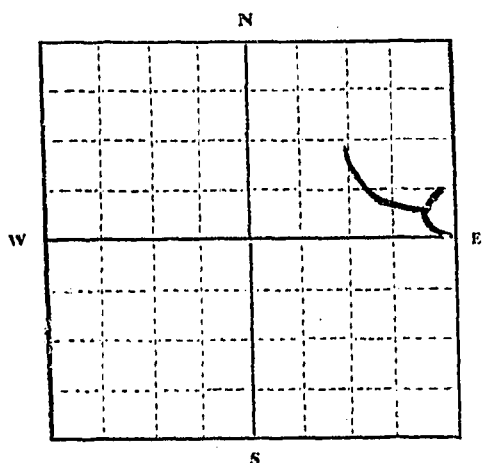
Owner Paul Wetzelton Address Sula

Contractor (if any) Not applicable

Address of Contractor N.A.

Date Started N.A. Date Completed N.A.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Series of small springs forming an intermittent stream.



NE 1/4 Sec. 27 T2N R19W

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. Used for

livestock watering for approximately eight months per year.

Signature of Owner Paul Wetzelton

Date Dec. 30, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

27411

#2601

I certify that I received and filed this
instrument on this 30th
day of Dec. 1963 at 2:49
o'clock P. M.

F. G. Moore
COUNTY RECORDER
By Shirley Keith
DEPUTY

GROUNDWATER INDEX

Page 1 of 1

County Ravalli Twp. 2 North Rge. 18 West

[illegible]

File No. 2510 - Surveys
(Water Rights Secured - Jennings Camp)
DUPLICATE

T. 2 N. R. 18 W.
County Ravalli

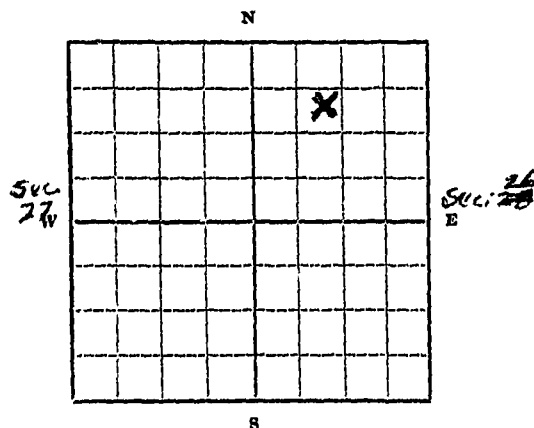
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. U. S. Dept. of Agriculture, Forest Service, of Hamilton
(Name of Appropriator) (Address) (Town)
County of Ravalli State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 NW 1/4 Sec. 26 T. 2 N. R. 18 W. 1/4 N.

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Domestic use
for Jennings public campground.

3. Date or approximate date of earliest beneficial use; and how con-
tinuous the use has been Well drilled November 27, 1961,
to November 29, 1961, to start continuous use.

4. The amount of groundwater claimed (in miner's inches or gallons
per minute) About 800 gallons per day.

5. If used for irrigation, give the acreage and description of the
lands to which water has been applied and name of the owner
thereof Not to be used for irrigation.

6. The means of withdrawing such water from the ground and the
location of each well or other means of withdrawal Deep well hand pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater Begun 11-21-61 and finished 11-29-61.

8. The depth of water table 42 feet.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any
other works for the withdrawal of groundwater Churn drilled well with 6" inside diameter
black welded casing 42 feet long - final depth 42'.

10. The estimated amount of groundwater withdrawn each year 21,000 gallons.

11. The log of formations encountered in the drilling of each well if available 0 to 2 feet surface dirt;
2' to 16' sandy clay, 16' to 21' cobble gravel; 21' to 42' sandy gravel - clay bound.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record Well log also sent Montana State Board of
Health.

U. S. Dept. of Agriculture, Forest Service

Signature of Owner Harold E. Anderson
Forest Supervisor

Date January 12, 1962

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is
located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines
and Quadruplicate for the Appropriator.

#1662

I certify that I received and filed this
instrument on this 29th
day of Oct., 1962, at 3:48
o'clock P. M.

Anthony Hork

COUNTY RECORDER

By

Shirley Keith
DEPUTY

File No.

T. R.

DUPLICATE

County Ravalli

LOG
OCT 8 1968
RECEIVED
STATE WATER RESOURCES BOARD

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

**Notice of Completion of Groundwater
Appropriation by Means of Well**
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

Top of Ground

(Elev. above sea level.....)

3'-Topsoil

11'-Decomposed granite
Sands, Clay and
Boulders

30'-Sand, Gravel, and
Large Glacial
Boulders, Water
Bearing

29 to 30'- Gravel pack

Owner Leonard Kellogg Address Sula, Montana

C. F. Wroble

Driller Ravalli Drilling Co. Address Victor, Montana

Date of Notice of appropriation of groundwater.....

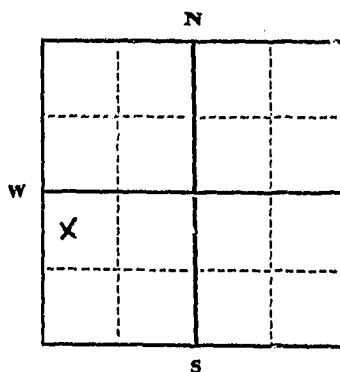
Date well started Oct. 3, 1968 Date completed Oct. 4, 1968

Type of well Drilled Equipment used Churn
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	15 lbs. per ft.	0	30	3/16x5	25	30



Static Water Level for non-flowing well
.....15.....feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level.....20.....feet

at.....15.....gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Baled and Pumped

Length of Test 1 hr. each

Remarks: (Gravel packing, cementing, pack-
ers, type of shutoff) Gravel pack in
last foot of pipe.

NW 1/4 Sec. 27 T. 2 R. 18
Indicate location of well and
place of use, if possible. Each
small square represents 40
acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state
number of acres and location or other data (i.e.: Lot, Block and Addi-
tion).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the
County Clerk and Recorder in the county in which the well is located, tissue copy to be
retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be
returned.

62
Driller's License Number

C. F. Wroble
Driller's Signature.

44,673

#5086

I certify that I received and filed this
instrument on this 7th
day of Oct, 19 68, at 1:15
o'clock P.M.

J. S. Moore
COUNTY RECORDER

by Free 2.00
DEPUTY

[illegible]

#5328

I certify that I received and filed this
instrument on this 6th
day of Oct, 1920, at 2:45
o'clock P.M.

J. G. Moore
COUNTY RECORDER

Fee 2.00
DEPUTY

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner AL Kersch

Address EAST FORK OF BITTER

MT. 59871

Date well started SEPT. 25, 1970

completed SEPT. 28, 1970

Type of well drilled

Equipment used churn

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

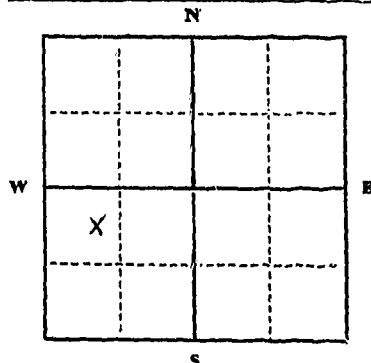
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe Well #2 (home)

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS
8" ID	6-5/8" OD	ground	23'	Kind Size From (Feet) To (Feet)
	17 lbs.			
	1/4" side-wall			



NW 1/4 Sec. 27
T. 2 N. R. 15 E.
S W

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Harold L. Williams

Driller's Address 1558 So. 5th N. Missoula, MT.

LICENSE NO. 151

County Sanwalk

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea-level)	
From (Feet)	To (Feet)
GL	5'
5'	7'
7'	13'
13'	19'
19'	23'

23 ft. Show exact depth of bottom

47606

#5329

I certify that I received and filed this
instrument on this 6th
day of Oct., 1920, at 2:46
o'clock P.M.

J. G. Moore
COUNTY RECORDER

By Lee 2.00
DEPUTY

GW 2

File No. _____

DUPLICATE

T 2 N R 18 28

Ravalli County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
JAN 8 1964

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner Leonard F. & Verna M. Kellogg Address P.O. Box 95, Darby

Driller William Anderson Address S. of Hamilton

Date of Notice of Appropriation of Groundwater _____

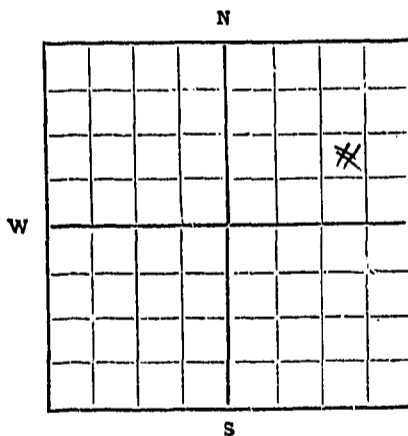
Date well started April 1963 Date Completed May 2, 1963

Type of well drilled Equipment Used drilling rig
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic (☒) Municipal () Stock () Irrigation ()
Industrial () Drainage () Other ()

← Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
4 in.	9½ lbs. 4 in.	0	19			



SE ¼ NE Sec. 28 T. 2 R. 18

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom

Static Water Level for non-flowing Well 10 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 15 feet at 5 gal. per minute.

Discharge in gal., per min. of flowing well 3 gal per min.

How Tested pump Length of Test 24 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, Location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) _____

33
Driller's License Number

William Anderson
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

27226

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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7. G. Moore

OFFICE OF THE ATTORNEY GENERAL
STATE OF NEW YORK
ALBANY, N. Y.

[illegible]

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

2. The second step is to gather information about the problem. This includes checking the logs, looking at the error messages, and talking to the users who are reporting the problem.

3. The third step is to analyze the information that has been gathered. This involves looking for patterns in the data and trying to figure out what is causing the problem.

4. The fourth step is to develop a plan to solve the problem. This might involve changing the configuration of the system, updating the software, or adding new hardware.

5. The fifth step is to implement the plan. This involves making the changes that were planned in the previous step.

6. The sixth step is to test the solution. This involves making sure that the changes that were made are working as expected.

7. The seventh step is to document the solution. This involves writing a report that describes the problem, the steps that were taken to solve it, and the results of the solution.

8. The eighth step is to communicate the solution to the users. This involves letting the users know that the problem has been solved and that they can continue to use the system.

9. The ninth step is to monitor the system to make sure that the problem does not happen again. This involves keeping an eye on the logs and error messages to see if there are any signs of the problem returning.

10. The tenth step is to review the solution to see if there are any lessons learned. This involves looking back at the steps that were taken to solve the problem and thinking about what could be done differently next time.

100

County Avalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER-CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Jim Nicholson

Address **BX 157**

Subtotal 59871

Date well started 11/9/73

completed 4/10/73

Type of well drilled

(Dug, driven, bored or drilled)

Equipment used Chen Drill

(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

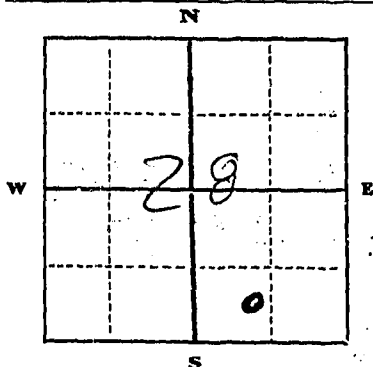
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

***Describe**

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6" I.D. 17 lb per ft.	1 1/2 ft above g.L.	30 ft		none	



SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 28
T. 2 N. R. 18 E. W.

Static water level7.....ft.*
Pumping water level1.2.....ft.*
at ...2.0.....gallons per minute,
measured ...2 minutes after pumping
began.

*Measured from ground level.
Well developed by hacking.....
forhours.

Power..... Pump..... HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Pittman Trembl

Driller's Address Rt 2 Box 49

Stevensville Grant LICENSE NO. 250

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

30 ft Show exact depth of bottom

52,933

5868

I certify that I received and filed this
instrument on this 17th
day of Apr, 1973, at 1:30
o'clock P.M.

Darlene E. Hughes
COUNTY RECORDER

Shirley Keith
DEPUTY

STATE WATER CONSERVATION BOARD

File No.

MAY 29 1967

T. R.

DUPLICATE

LOG

Bliss
 Butcher
 Coyne
 Darlington
 Dickert

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

County Richmond

Top of Ground

(Elev. above sea level.....)

0 tan clay and silt
 3
 3 gray clay, sand and
 10 gravel
 10 boulder
 11
 11 gray clay, sand and
 18 gravel
 18 sand, gravel and
 23'6" water

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

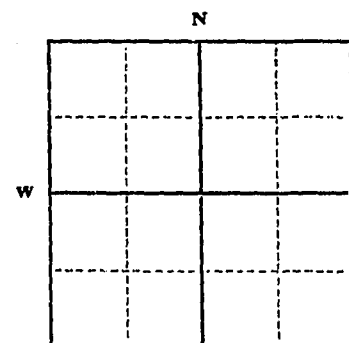
Owner BILL KUHANECK Address SULA, MONTANADriller KEN WILLIAMS Address 1558 S. 5th N.
MISSOULA, MONTANA

Date of Notice of appropriation of groundwater.....

Date well started JULY 23, 66 Date completed JULY 26, 66Type of well DRILLED Equipment used CHURN
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6 5/8" O.D. 17lbs 1/4" side wall	ground level	23'6"			



pt. H.E. Survey 197
 1/4 Sec. 32, T. 2, R. 18
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 13 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level..... 22 feetat 35 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested bail testLength of Test..... 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

151
 Driller's License Number

Glenard J. Williams
 Driller's Signature

42,029 #629

#4940

173000

I certify that I received and filed this
instrument on this 24th
day of May, 19 67 at 2:40
o'clock P.M.

F. G. Moore
COUNTY RECORDER

Myron M. Smith
Fee \$2.00 DEPUTY

File No. **RECEIVED**

T. _____ R. _____

DUPLICATE

JUL 5 1966

County _____

LOG

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

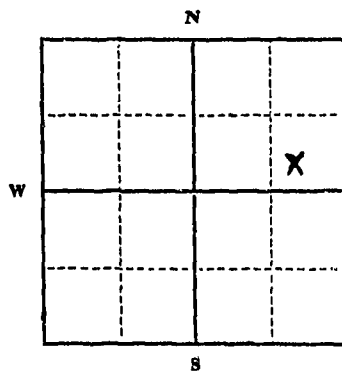
(Under Chapter 237, Montana Session Laws, 1961)

0' pit
6' sand, gravel and boulders
11' gray clay, sand and gravel
14' sand, gravel and water
18'6" "

Owner MRS. HERBERT STOUT Address SULA, MONTANADriller HELEN A. STOUT
KEN WILLIAMS Address 1558 S. 5th W.
MISSOULA, MONT.Date of Notice of appropriation of groundwater July 26, 66Date well started July 26, 66 Date completed July 27, 66Type of well DRILLER Equipment used CHURN
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8" I.D.	5/8" O.D. 17lbs. 1/4" side wall	ground level	18'6"			



Static Water Level for non-flowing well

.....5'.....feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level.....15'.....feet

at 35.....gal. per minute.

Discharge in gal. per min. of flowing well

How Tested.....BAIL TEST.....Length of Test.....2 hours.....

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

SE 1/4 NE Sec. 32 T. 2 R. 18

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

151
Driller's License Number

Ken Williams
Driller's Signature

55546

6016

I certify that I received and filed this

instrument on this 29th
day of June, 1973, at 9:25
o'clock A.M.

Charles E. Hughes
COUNTY RECORDER

By Joe L. Co
DEPUTY

File No.

DUPLICATE

RECEIVED

APR 11 1973

T. R.

County ParadiseMONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATIONSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERNotice of Completion of Groundwater
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

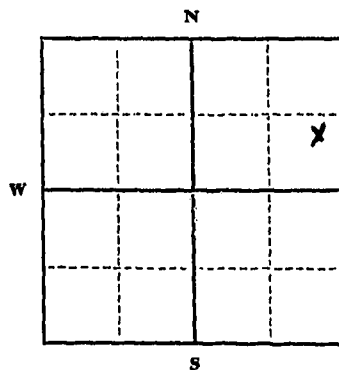
Owner JOE AYERS Address SULA, MONTANADriller KEN WILLIAMS Address 1558 S. 5th W.
MISSOULA, MONTANA

Date of Notice of appropriation of groundwater

Date well started AUG. 3, 66 Date completed AUG. 4, 66Type of well DRIILLED Equipment used CHURN
(Dug, Driven, Bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	5/8" 6" O.D. 17lbs 1/4" side wall	ground level	30'			

Static Water Level for non-flowing well
..... 21 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level..... 28 feetat..... 35 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested..... bail testLength of Test..... 3 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff)

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

151
Driller's License NumberKen Williams
Driller's Signature

52,862

5860

I certify that I received and filed this
instrument on this 10th
day of April, 1923, at 9:50
o'clock A. M.

Darlene E. Hughes
COUNTY RECORDER

Fee 2.00
DEPUTY

File No.

T. 2 North R. 18 West

DUPLICATE

County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 17 1964

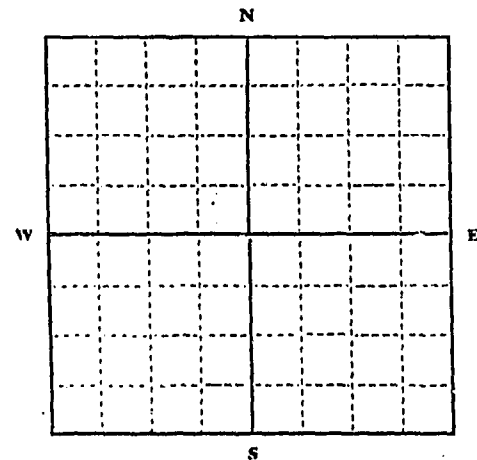
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Harry J. Johnson & Donna Lorraine, of 317 Beverly Missoula
(Name of Appropriator) Johnson (Address) (Town)

County of Missoula State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 32 T. 2N. R. 18W

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.
98 Pt H E Survey # 946
County of **Ravalli**
State of **Montana**

2. The beneficial use on which the claim is based Household
and garden-lawn irrigation
3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been August 28, 1961
In use since this date
4. The amount of groundwater claimed (in miner's inches or gallons
per minute) Six and one half gallons per
minute
5. If used for irrigation, give the acreage and description of the lands
to which water has been applied and name of the owner thereof
Does not apply
6. The means of withdrawing such water from the ground and the loca-
tion of each well or other means of withdrawal Pump in house
from one well near house
7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater Estimate sometime in 1951
8. The depth of water table Not known
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other
works for the withdrawal of groundwater Well about thirty feet deep
10. The estimated amount of groundwater withdrawn each year Two to Three Thousand Gallons
11. The log of formations encountered in the drilling of each well if available Not known
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including
reference to book and page of any county record None known of

Signature of Owners

Date December 28, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of
Mines and Geology, and Quadruplicate for the Appropriator.

37663

4099

I certify that I received and filed this
instrument on this 31st
day of Dec., 1963, at 4:28
o'clock P.M.

F. Y. Moore

COUNTY RECORDER

By Shirley Keith
DEPUTY

County Kauai

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

(Under Chapter 237, Montana Session Laws, 1961, as amended)

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 5896; 19870

Aug 29, 1973

GW 1 11:15 A.M.

SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 32

T. 2 N R. 18 $\frac{E}{W}$

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or esti-

mated

Owner L. J. Hines U. Grant
Address Box 413 Lake Mont
Contractor (if any) _____
Address of Contractor _____
Date Started _____ Date Completed _____

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) min.

2. Means of withdrawing water (gravity, pump, canal, etc.)

3. Depth of water table 11.2 m

4. Use of the water 4330

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 5.5 gpm

6. If used for irrigation, give number of acres and description of land 1 acre

7. Estimate amount of water used each year

8. Months of year spring flows 12

Signature of Owner [Signature]

Date 12 June 1951

5-4649

RECEIVED

3 GW 3 Revised 1969
2057-1500-1/71

County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962

(Under Chapter 237, Montana Session Laws, 1961, as amended)

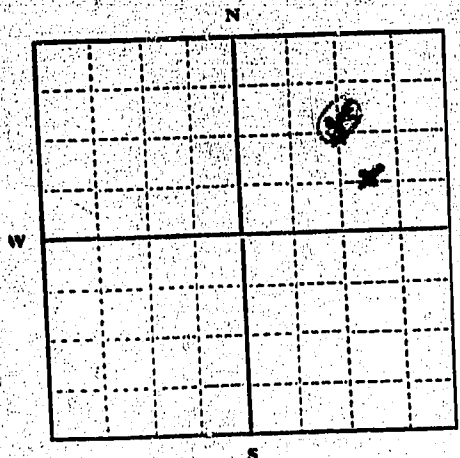
This form to be prepared by contractor (if any), otherwise by the owner.
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 5896, 19870

June 29, 1973

GW 1 11:59 AM



SE 1/4 NE 1/4 Sec. 32

T. 2 N R. 18 W

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or estimated _____

Owner Robert L. & Helen A. Stant

Address Box 413 Lula Mont

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Spring

2. Means of withdrawing water (gravity, pump, canal, etc.) Pump

3. Depth of water table Unknown

4. Use of the water Irrigation

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 50 miner's inches

6. If used for irrigation, give number of acres and description of land 1 acre

7. Estimate amount of water used each year _____

8. Months of year spring flows 12

Signature of Owner Helen A. Stant

Date 18 June 1973

54649

5996

195370

I certify that I received and filed this
instrument on this 28th
day of June, 1973 at 11:15
o'clock A.M.

Darlene E. Hughes
COUNTY RECORDER

By Joe J. Co
DEPUTY

55430

6039

County that I received and filed this
instrument on this 29th
day of June 19 23 at 2:15
o'clock P.M.

Darlene E. Hughes
COUNTY RECORDER

Mar 2.00
DEPUTY

218
County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the **owner** with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Hazel Boscarino
Owner Sam Boscarino

Owner Sam Gosciniak
Address Soula, E. Fork

Address Saula, E. Fork
Bitterroot

Date well started 11-28-72

completed 11-28-72

Type of well drilled

Equipment used air rotary

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

***Describe**

USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL unknown

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS	
				Kind Size	From (Feet) To (Feet)
6"	6 5/8" 17 lb. per ft.	+ 18"	31'	None	

A 3x3 grid with a solid border and dashed internal lines. The top center cell contains the letter 'X'. The top edge is labeled 'N', the left edge 'W', and the right edge 'E'.

Static water level15.....ft.*
Pumping water level7.....ft.*
at25.....gallons per minute,
measuredminutes after pumping
began.

*Measured from ground level.
Well developed by air compressor
for hours.

Power..... Pump..... HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

H.E.S. # 197 S

NE 1/4 NW 1/4 Sec. 33

T. 2 N R. 18 E.
S W

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Robert Jerome

Driller's Address 3726 Mount Ave
Missoula

LICENSE NO.....Y

3 1973 indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth to which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level) 3500

From (Feet)	To (Feet)	
0	31	Cobblestones, sand gravel & clay

31' Show exact depth of bottom

55422

6047

6047

6047

I certify that I received and filed this
instrument on this 29th
day of June, 1923, at 4:29
o'clock P.M.

Charles E. Hays
COUNTY RECORDER

By Wm. J. O'Connell
DEPUTY

RECORDED
INDEXED
FILED
JUN 29 1923
CLERK OF COURT
COUNTY OF ALABAMA
TOLSON

File No.

MONTANA WATER RESOURCES BOARD

T. R.

DUPLICATE

RECEIVED

County Ravalli

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level.....)

3'-Topsoil

108'-Sand Gravel and
Boulders (Large
Glacial Boulders)18'-Shale, Water
BearingNotice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

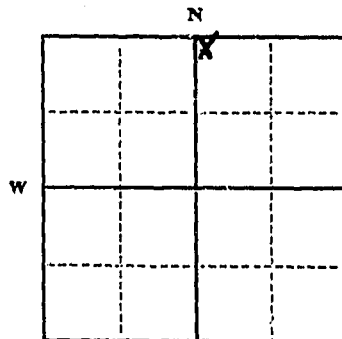
Owner James J. Martin Address Sula, Montana
C. F. WrobleDriller Ravalli Drilling Co. Address Victor, Montana

Date of Notice of appropriation of groundwater.....

Date well started Oct. 4, 1968 Date completed Oct. 7, 1968Type of well Drilled Equipment used Churn
(Dig, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	15 lbs. per ft.	0	18	3/16x5	13	18

H.F. Denny 197^sNW 1/4 Sec. 33 T. 2 R. 18
Indicate location of well and place of use, if possible. Each small square represents 40 acres.Static Water Level for non-flowing well
.....4.....feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level.....11.....feet
at.....25.....gal. per minute.Discharge in gal. per min. of flowing well
.....How Tested Baled

Length of Test.....2 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

(Continue on reverse side)

USE--If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

.....52.....
Driller's License NumberC. F. Wroble
Driller's Signature.

45,262

#5150

I certify that I received and filed this
instrument on this 22nd
day of May, 1969, at 10:40
o'clock AM.

J. G. Moore
COUNTY RECORDER

By Lee 2.00
DEPUTY

GROUNDWATER INDEX

Page 1 of 1

County Ravalli Twp. 2 North Rge. 17 West

[illegible]

File No.

T. R.

DUPLICATE

MONTANA WATER RESOURCES BOARD

LOG

RECEIVED

JUN 30 1969

County BeavalliSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level.....)

**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

6" Topsoil

Owner W. B. Beldon Address Victor, Mont.

Box 27

Driller C. F. Wroble Address Victor, Mont.

Date of Notice of appropriation of groundwater.....

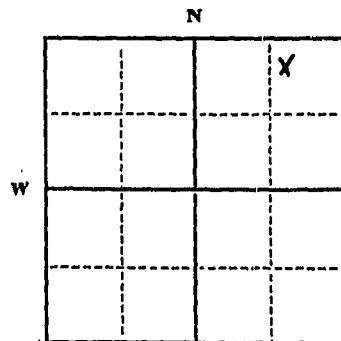
Date well started Oct. 4, 1967 Date completed Oct. 11, 1967Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

51' Sand, Gravel, Large
Boulders

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	15 lbs. per ft.			3/16x4	53	58

62' Granite bedrock

Static Water Level for non-flowing well
.....51.....feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level.....56.....feetat.....10.....gal. per minute.

Discharge in gal. per min. of flowing well

How Tested.....Baled.....Length of Test.....1 hr......Remarks: (Gravel packing, cementing, pack-
ers, type of shutoff).....Lot 1 Springer's Memorial Park
V.F.W.

NE 1/4 Sec. 20 T. 2 R. 17

Indicate location of well and
place of use, if possible. Each
small square represents 40
acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state
number of acres and location or other data (i.e.: Lot, Block and Addi-
tion).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the
County Clerk and Recorder in the county in which the well is located, tissue copy to be
retained by driller.Please answer all questions. If not applicable, so state, otherwise the form will be
returned.

Driller's License Number

Driller's Signature

45386

#5171

I certify that I received and filed this
instrument on this 27th
day of June, 1969, at 2:40
o'clock P.M.
F. G. Moore
COUNTY RECORDER
Fee 2.00
DEPUTY

GROUNDWATER INDEX

Page 1 of 1

County Ravalli Twp. 1 North Rge. 22 West

[illegible]

File No.

T. R.

DUPLICATE

LOG

MONTANA WATER RESOURCES BOARD
RECEIVED

AUG 14 1969

County Ravalli

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level.....)

54'-Decomposed Granite sand
and Large Boulders58'-Bedrock Water
Bearing**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Helen Kruegar Address Darby, Montana

C. F. Wroble

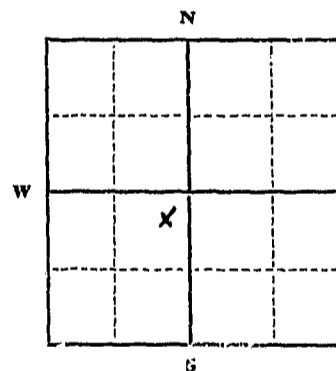
Driller Ravalli Drilling Co. Address Victor, Montana

Date of Notice of appropriation of groundwater.....

Date well started June 26, 1969 Date completed June 30, 1969Type of well drilled Equipment used churn
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	15 lbs. per ft.	0	58	3/16x5	53	58

Static Water Level for non-flowing well
..... 38 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level..... 54 feetat..... 8 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Baled-1 hourLength of Test pumped-1 hour

Remarks: (Gravel packing, cementing, packers, type of shutoff).....

NE 1/4 Sec 34 T. 1 R. 22
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

..... 62.....
Driller's License NumberC. F. Wroble
Driller's Signature

#5187

I certify that I received and filed this
instrument on this 12th
day of Aug, 1969, at 2:05
o'clock P.M.

F. G. Moore
COUNTY RECORDER

By Lee D. O
DEPUTY

GROUNDWATER INDEX

Page 4

County Ravalli Twp. 1 North Rge. 20 W.

[illegible]

RECEIVED
NOV 19 1957

T. 1 N R. 20 W
County Powell

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Jos R Lord Address Conner Mont.
Driller Norman C Ray Address Hamilton Mont.
Date Started July 22 Date Completed July 23
Location: Sec. 2 T. 1 N R. 20 W $\frac{1}{4}$ sec. S. E.

Type of well Drilled Equipment used _____
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other: _____

Casing: _____ ft. to _____ ft. Type iron Size 6 inch
Casing: _____ ft. to _____ ft. Type _____ Size _____
Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. _____ to ft. _____ Ft. _____ to ft. _____

Type of screen or perforations _____

Static Water level, for non-flowing well: ten to twelve feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level _____ feet at 2.000 gal. per min. hr.

How tested: _____

Length of test _____

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)



(over)

[illegible][illegible]

File No. 2142

T. 1 N. R. 21 W.

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

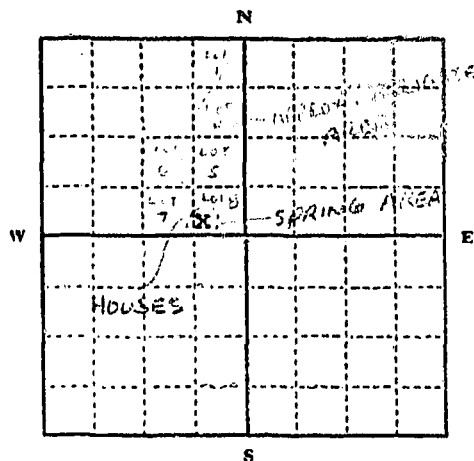
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Richard Bard, Jr., of P.O. Box 6, Darby
(Name of Appropriator) (Address) (Town)

County of Ravalli State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NW 1/4 Sec. 3, T. 1 N. R. 21 W.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

Spring area; 200 feet east and 500 ft. north of center is located about 1280' west and 600' north of NE corner of SW 1/4.

2. The beneficial use on which the claim is based Domestic, stock water, and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been probably year 1903, date of original patent. To the best of my knowledge use of this water has been continuous year to year.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Approximately 50 gallons per minute; including about 30 gpm in or flowing from spring being used for domestic purposes.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Total amount of water contributes to irrigation of about 32 acres in Gov't. lots 1, 4, 5, 7, and 8, Sec. 3, T. 1 N., R. 21 W., MPM. Owner: Richard Bard, Jr.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal All flows by gravity, except when domestic pump, set in dug out spring, runs. The small pump does not appreciably impede the flow of the spring.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Pump installed in spring in about 1956; prior withdrawal was by means of old spring box.

8. The depth of water table at surface.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater There is no other well. Other springs in the "spring area" flow freely into irrigation ditch. There are no other works for withdrawal.

10. The estimated amount of groundwater withdrawn each year Aside from continuous year around spring flow...only that used for garden and domestic use.

11. The log of formations encountered in the drilling of each well if available none

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Ownership: Vol. 115, Deeds, Page 283

Signature of Owner Richard Bard, Jr.

Date December 23, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

15636

I certify that I received and filed this
instrument on this 23
day of Dec, 19 63, at 4:37
o'clock P.M.

F. H. Moore
COUNTY RECORDER

By _____
DEPUTY

FILED
1963
DEC 23
4:37 P.M.

File No. 2143T. 1 N. R. 21 W.

DUPLICATE

County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater around 1903 when property was first homesteaded.

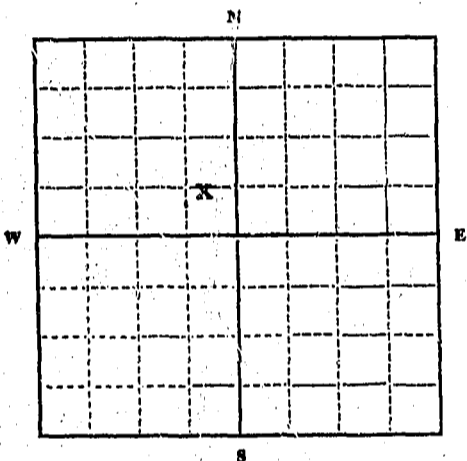
Owner Richard Bard, Jr Address P.O. Box 6
Darby, Montana

Contractor (if any) none

Address of Contractor _____

Date Started _____ Date Completed _____

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring which flows year around.



SE 1/4 NW 1/4 Sec 3 T. 1 N R. 21 W
Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent
20 gpm (estimate) continuous.
estimate approximate lengths of periods of use _____

flows into irrigation ditch and is used for stock water and for irrigation.

Signature of Owner

Richard Bard, Jr.

Date December 23, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

File No. 2143T. 1 N. R. 21 W.

DUPLICATE

County Ravalli

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Notice of Completion of Groundwater Appropriation Without Well

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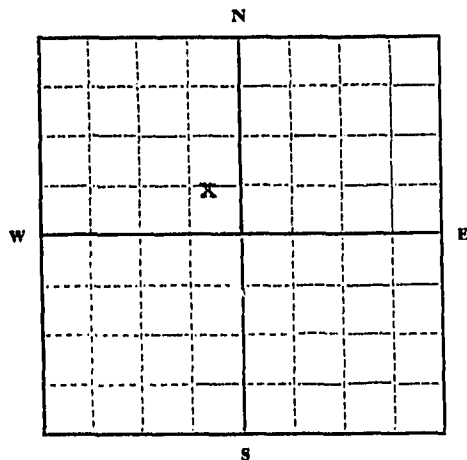
Owner Richard Bard, Jr Address P.O. Box 6
Darby, Montana

Contractor (if any) none

Address of Contractor

Date Started Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring which flows year around.



SE 1/4 NW 1/4 Sec 3 T. 1 N R. 21 W
Indicate point of appropriation and place of use, if possible.

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20 gpm (estimate) continuous.
estimate approximate lengths of periods of use

flows into irrigation ditch and is used for stock water and for irrigation.

Signature of Owner

Richard Bard, Jr.

Date December 23, 1963

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Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

I certify that I received and filed this
instrument on this 23
day of Dec, 1963, at 4:38
o'clock P.M.

F. H. Moore
COUNTY RECORDER

By.....
DEPUTY

County Franklin

53,0718

5870

I certify that I received and filed this instrument on this 3rd day of May 1973, at 1:40 o'clock PM.

Darlene E. Hughes
COUNTY RECORDER

BY Hand. 00
DEPUTY

[Faint, illegible handwritten notes]